

## SEPARATOR FOR ALKALINE SECONDARY BATTERY

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### Abstract

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**PURPOSE:** To improve the cycle life of a battery by using an appropriate resin fabric and a sulfuric ester structure to obtain good hydrophilic property and self-discharge restraining effect.

**CONSTITUTION:** A fabric formed of polyolefin only or of copolymer of polyolefin and polyvinyl alcohol is used. Such fabric is given sulfuric acid treatment to form a sulfuric ester structure with addition reaction in carbon-to-carbon double combined areas exposed to the surface of the fabric. In this way, the fabric as the base of a separator is formed of olefin group resin to provide good heat resistance, chemical stability and decomposed product prohibitive property. An alkaline secondary battery with the built-in separator is restrained from self-discharge and improved in cycle life.

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